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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/514,489	02/29/2000	Somnath Banik	BANIK 2-73	2128

7590 10/23/2002

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EXAMINER

NGUYEN, TU X

ART UNIT	PAPER NUMBER
2682	

DATE MAILED: 10/23/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)	<i>JK</i>
	09/514,489	BANIK ET AL.	
	Examiner Tu X Nguyen	Art Unit 2682	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 21 August 2002.

2a) This action is **FINAL**.      2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1-20 is/are pending in the application.

4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5) Claim(s) \_\_\_\_\_ is/are allowed.

6) Claim(s) 1-20 is/are rejected.

7) Claim(s) \_\_\_\_\_ is/are objected to.

8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11) The proposed drawing correction filed on \_\_\_\_\_ is: a) approved b) disapproved by the Examiner.

    If approved, corrected drawings are required in reply to this Office action.

12) The oath or declaration is objected to by the Examiner.

#### Priority under 35 U.S.C. §§ 119 and 120

13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some \* c) None of:

    1. Certified copies of the priority documents have been received.

    2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.

    3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).

    a) The translation of the foreign language provisional application has been received.

15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

#### Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_.

4) Interview Summary (PTO-413) Paper No(s) \_\_\_\_\_.

5) Notice of Informal Patent Application (PTO-152)

6) Other: \_\_\_\_\_.

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-3, 6, 8-10, 13, 15-16 and 19, are rejected under 35 U.S.C. 103(a) as being unpatentable over McDonald et al. (US Patent 6,122,271).

Regarding to claims 1-2, 8-9 and 15-16, McDonald et al. disclose for use in communicating data over a voice channel between a transmitter (32, fig.1) and a receiver (38,fig.1), a system comprising:

a silence detector (see col.3 lines 37-38), coupled to said transmitter (32, fig.1), that identifies a pause in voice traffic that is to be transmitted over said voice channel and generates an interjection signal during said pause (see col.3 lines 58-67); and

a data injector (24-31, fig.1), coupled to said silence detector, that receives said interjection signal and responds by causing said transmitter to transmit data to said receiver (see col.4 lines 1-15).

McDonald et al. do not mention about voice channel for communication between transmitter and receiver. However, McDonald et al. point out that the digital data are embedded in voice frame and be transmitted over TDMA channel; thus, It would have

been obvious that the TDMA channel of McDonald could have been voice channel so that McDonald using TDMA channel to transmit data stream and voice.

Regarding to claims 3, and 10 McDonald et al. disclose said transmitter is associated with a base station of a cordless telephone and said receiver is associated with a handset of said cordless telephone (see fig.2).

Regarding to claims 6, 13 and 19 McDonald et al. further disclose said transmitter transmits said voice traffic in frames (col.4 lines 55-65).

3. Claims 5, 12 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over McDonald et al. in view of Kostreski et al. (US Patent 6,130,898).

Regarding to claims 5, 12 and 18 McDonald et al. fail to disclose said data comprises menu item selection data.

Kostreski et al. disclose said data comprises menu item selection data (see col.28 lines 44-62). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of McDonald et al. with the above teaching of Kostreski et al. in order to allow user to select one of the sets of information from the menu without requiring additional spectrum allocation.

4. Claims 4, 11 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over McDonald et al. in view of Cannon et al. (US Patent 5,170,490).

Regarding to claims 4, 11 and 17 McDonald et al. fails to disclose said data comprises caller identification data.

Cannon et al. disclose said data comprises caller identification data (see col.6 lines 6-24). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of McDonald et al. with the above teaching of Cannon et al. in order to recognize in other party caller identification.

5. Claims 7, 14 and 20 are rejected under 35 U.S.C. 103(e) as being unpatentable over McDonald et al. in view of Summer (US Patent 6,041,227).

Regarding to claims 7, 14 and 20, McDonald et al. fails to disclose said silence detector identifies said pause by comparing a peak energy of said voice traffic to a noise floor reference.

Summer disclose said silence detector (see col.2 lines 1-4) identifies said pause by comparing a peak energy of said voice traffic to a noise floor reference (see col.6 lines 6-12). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of McDonald et al. with the above teaching of Summer in order to predict periods of silent more accurately.

#### ***Response to Amendment***

6. Applicant's arguments with respect to claims 1, 8 and 15 have been considered but are moot in view of the new ground(s) of rejection.

#### ***Conclusion***

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tu Nguyen whose telephone number is (703) 305-3427.

The examiner can normally be reached on Monday through Friday from 8:30 a.m. to 5:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin, can be reached at (703) 308-6739.

Any inquiry of a general nature or relating to the status of this application should be directed to the Technology Center 2600 Customer Service Office at (703) 306-0377.

**Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks  
Washington, D.C. 20231

**or faxed to:**

(703) 872-9314 (Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).

*TN*

October 18, 2002

*V. Chin*  
VIVIAN CHIN  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600

*10-21-02*